

Benjamin Bengfort

Resume

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Experience

Faculty Director, Georgetown University, Washington, DC. **2014–present**
Adjunct Faculty, Data Analytics Certificate Program (CCPE). Teaching *Foundations of Data Science*, *Software Engineering for Data*, *Data Sources*, *Data Analysis II: Machine Learning*, and *Applied Data Analytics*.

Data Scientist, Cortex Building Intelligence, Washington, DC. **2017–2018**
Time-series analysis and modeling of building management sensor data for real-time recommendations to improve building energy efficiency.

Partner, District Data Labs, Washington, DC. **2014–2017**
Architect and develop innovative open source projects, facilitating local developer contributions and research, including Yellowbrick, visual steering for machine learning, and Baleen, a large scale corpus ingestion engine.

Chief Data Scientist, Cobrain Company, Bethesda, MD. **2013–2014**
Developed a Global Recommendation Engine, using Collaborative Filtering algorithms as well as Active Learning and adaptive systems from a machine-learning standpoint. Graph traversal and clustering across massive data stores required distributed Graph databases: Titan, as well as strong computation in Hadoop and Python with Pandas and NumPy.

Chief Technology Officer, Unbound Concepts, Baltimore, MD. **2011–2013**
Natural Language Processing across a large dataset of children's literature using Machine Learning and predictive analysis with clustering and multivariate non-linear regression
Big data analysis applied to the NLP and ML using Hadoop and MapReduce techniques.

Lead Programmer, Tactical Network Solutions, Columbia, MD. **2010–2012**
Python software development for embedded, mobile and server applications
Large-scale and real-time data analysis of Petabytes of wireless packet collects.
Real time asset tracking software development with geolocation and KML toolkits

CMS Analyst, Oxford University Press, Oxford, United Kingdom. **2007–2009**
Management of custom content management solutions for electronic publishing division

Junior Network Engineer, CenGen, Inc., Columbia, MD. **2003–2004**
Network support for DARPA's Grand Challenge & USMC Condor

Education

PhD Candidate, University of Maryland, College Park. **2014–2018**
Graduate Research Assistant, Distributed Systems (expected December 2018)

M.S. Computer Science, North Dakota State University. **2008–2010**
Phi Kappa Phi, Upsilon Pi Epsilon

B.A. Economics, University of Maryland, College Park. **2004–2006**
Primatum Honor Society

English Major, United States Naval Academy. **2002–2003**

Skills

Software Development: Python 2.7 & 3.5, GoLang, JavaScript, Java, C/C++, Git & GitHub, Agile

Machine Learning: Scikit-Learn, Yel-lowbrick, TensorFlow, SparkML, GraphX

Application Development: Django, Ng-inx, AJAX, jQuery, Bootstrap, Flask, REST microservices

Big Data: Spark, Hadoop, MapReduce, HDFS, Distributed Systems, Celery

NLP: NLTK, TextBlob, Pattern, spaCy, Gensim

Databases: PostgreSQL, MongoDB, BoltDB, Redis, Hive, Titan, Neo4j, MySQL, SQLite

Publications

Benjamin Bengfort, Rebecca Bilbro, and Tony Ojeda. *Applied Text Analysis with Python: Enabling Language Aware Data Products with Machine Learning*. O'Reilly Media, Inc.

Benjamin Bengfort and Xiaojiang Du. Efficient resource allocation in Hybrid Wireless Networks. In *Wireless Communications and Networking Conference (WCNC), 2011 IEEE*, pages 820–825. IEEE.

Benjamin Bengfort and Pete Keleher. Brief Announcement: Hierarchical Consensus. In *Proceedings of the 2017 ACM Symposium on Principles of Distributed Computing*, pages 355–357. ACM.

Benjamin Bengfort and Pete Keleher. Federating Consistency for Partition-Prone Networks. In *Proceedings of the 2017 IEEE 37th International Conference on Distributed Computing Systems (ICDCS)*. IEEE.

Benjamin Bengfort and Jenny Kim. *Data Analytics with Hadoop: An Introduction for Data Scientists*. O'Reilly Media, Inc.

Benjamin Bengfort, Philip Y. Kim, Kevin Harrison, and James A. Reggia. Evolutionary design of self-organizing particle systems for collective problem solving. In *Swarm Intelligence (SIS), 2014 IEEE Symposium On*, pages 1–8. IEEE.

Benjamin Bengfort, Konstantinos Xirogiannopoulos, and Pete Keleher. Anti-Entropy Bandits for Geo-Replicated Consistency. In *Proceedings of the 38th International Conference on Distributed Computing Systems (ICDCS)*. IEEE Computer Society Press.

Tony Ojeda, Sean Patrick Murphy, Benjamin Bengfort, and Abhijit Dasgupta. *Practical Data Science Cookbook*. Packt Publishing Ltd.

Volunteer Experience

- UMD Department of Computer Science: Education Committee
- Advances in Cognitive Systems 2015: Referee and Reviewer
- UMD Senate: Nominations Committee, Committee on Committees, Student Affairs Committee, Special Working Group on Senate Communications.
- Data Community DC: Treasurer, Board Member, and Organizer for DIDC.
- Vino Scholastico: Board member for HCC tuition fundraising event.